



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

PROCEEDINGS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY.

VOL. II. JULY, AUG. SEPT. & OCT. 1841. No. 19.

Stated Meeting, July 16.

Present, thirty-one members.

Mr. DU PONCEAU, President, in the Chair.

Letters were received and read:—

From Dr. Robert Christison, of Edinburgh, dated June 4, 1841, and from Prof. Edward Hitchcock, of Amherst, dated July 10, 1841, making acknowledgments for the honour of their election as members:—

From V. Cousin, Minister of Public Instruction of France, dated Paris, 23d October, 1840, announcing the transmission to the Society of a copy of the Archives du Muséum d'Histoire Naturelle:—

From M. Paris, President of the Royal Society of Antiquaries of France, dated Paris, 15th Jan. 1841, transmitting Vol. XV. of the Memoirs of that Society:—

From W. A. Graham, Secretary of the Society of Arts, &c. Adelphi, London, dated 14th June, 1841, acknowledging the receipt of Vol. VII. Part 2, of the Transactions, and Nos. 14, 15 & 16, of the Proceedings of the Society:—

From Frederick de Peyster, Corresponding Secretary of the New York Historical Society, dated 6th July, 1841, transmitting the first Volume of its Collections, N. S.:—

From Mr. George Folsom, dated 7th July, 1841, relating to certain publications of this Society, which are deficient in the library of the New York Historical Society:—

From Mr. W. W. Griffin, dated Elizabeth City, N. C. 11th

July, 1841, on the subject of the published Volumes of the Transactions.

The letter of Mr. Folsom was referred to the Library Committee, and that of Mr. Griffin to the Committee of Publication, with power to take order.

The following donations were announced:

FOR THE LIBRARY.

Boletin Enciclopédico de la Sociedad Economica de Amigos del Pais.

Tomo I°. Numeros 13, 14, 15, 16, 17. Valencia, 1841. 8vo.—

From the Society.

Collections of the New York Historical Society. Second Series.

Vol. I. New York, 1841. 8vo.—*From the Society.*

A Discourse on the Life and Character of the Rev. Joseph Tucker-
man. By William E. Channing. Boston, 1841. 8vo.—*From
the Author.*

Pamphlets.—Trois Notes sur le Projet de Loi sur les Fortifications de
Paris. Appel au bon sens National. La Voix de la France.—
From the Author, M. A. Jullien, de Paris.

Monograph of the Limniades of North America. By S. Stehman
Haldeman. No. 3. July, 1841. 8vo.—*From the Author.*

Tijdschrift voor Natuurlijke geschiedenis en Physiologie; uitgegeven
door J. van der Hoeven, M.D. &c., en W. H. de Vriese, M.D.
&c. Two numbers. 8vo. Leyden, 1841.—*From the Edi-
tors.*

Geschichte des Siebenjährigen Krieges in Deutschland von 1756 bis
1763, durch J. M. von Archenholtz, &c. Berlin, 1791. 12mo.—
From Mr. Du Ponceau.

Kurzgefasste Lebensgeschichte Nicolaus Ludwigs, Grafen und Herrn
von Zinzendorf und Pottendorf, von Jacob Christoph Duvernoy.
Barby, 1793. 12mo.—*From Mr. John Jordan, Jun.*

Istruzione sui parafulmini, lettera del Sig. Ferdinando Elice, &c. &c.
&c. Genoa, 1841. 8vo.—*From the Author.*

Noticia de un Cameleon Mineral, &c. &c. Por S. D. Andres del
Rio, &c. &c. Mexico, 1839.—*From the Author.*

Fifth Geological Report of the State of Tennessee, made Nov. 1839.
By G. Troost, M.D. &c. &c.—*From the Author.*

An Examination of Beauchamp Plantagenet's Description of the Pro-
vince of New Albion. By John Penington. 1840. 8vo.—*From
the Author.*

Scraps, Osteologic and Archæological. By John Penington. 1841. 8vo.—*From the same.*

Reports of Dr. Beck, Mr. Conrad, Mr. Vanuxem, and others, on the Geological Survey of New York. 1841. 8vo.—*From Mr. L. Vanuxem.*

Journal of the Franklin Institute. July, 1841. 8vo.—*From the Institute.*

The American Journal of the Medical Sciences. Edited by Isaac Hays, M.D. &c. &c. July, 1841. 8vo.—*From the Editor.*

The American Medical Library and Intelligencer. By Robley Dunglison, M.D. New Series. Vol. I. No. 1. July, 1841.—*From the Editor.*

FOR THE CABINET.

A specimen of Marble from Granada, of Andalusia.—*From Mr. N. Patrullo.*

A large Map of South America, by Olmedilla. Published by order of the Spanish Government, in 1775.—*From the same.*

The committee, consisting of Professor Bache, Mr. Walker, and Mr. Lukens, to which was referred the paper by Mr. Hassler, entitled "Description of a New Form of Transportable Original Barometer," &c. reported in favour of its publication in the Transactions, and recommended that in accordance with the author's directions, as communicated through the Librarian, it be published without alteration of the phraseology. The Society declined making the publication in the manner proposed, and ordered the paper to be placed at the disposal of Mr. Hassler.

The committee, consisting of Mr. Nicklin, Dr. Hays, and Mr. F. Peale, to which was referred the "Continuation of Mr. Lea's Paper on Fresh Water and Land Shells," read on the 18th of June last, reported in favour of its publication in the Transactions; and it was ordered accordingly.

In this paper Mr. Lea describes twenty-two new species of fresh water and land shells of the United States, chiefly from Alabama and Tennessee. The new *Valvata* (bicarinata) from the Schuylkill is interesting from the fact of its inhabiting within the precincts of our city, and remaining unobserved heretofore. The shell resembles in form the *tricarinata* of Say, but differs in the number of the carinæ,

and in some other characters. The animal differs still more both in form and colour.

Unio Brumleyanus. Testâ ellipticâ, inflatâ, inæquilaterali, posticè subbiangulatâ; valvulis crassis; natibus ———; epidermide nigrâ, politâ; dentibus cardinalibus subgrandibus, lateralibus brevibus subrectisque; margaritâ albâ et iridescente. *Hab.* Warrior River, Tuscaloosa, Alabama.—*Prof. Brumley.*

Unio regularis. Testâ regulariter ellipticâ, subinflatâ, inæquilaterali; valvulis subtenuibus; natibus vix prominentibus; epidermide luteo-fuscâ, radiatâ; dentibus cardinalibus minutis, lateralibus longis curvisque; margaritâ cœruleâ et iridescente. *Hab.* French Broad River, East Tennessee.—*Dr. Troost and S. M. Edgar.*

Unio mæstus. Testâ ovatâ, subinflatâ, valde inæquilaterali; valvulis subcrassis; natibus prominulis; epidermide tenebroso-fuscâ, rugoso-striatâ; dentibus cardinalibus parvis, lateralibus longis curvisque; margaritâ atro-purpureâ et iridescente. *Hab.* French Broad River, East Tennessee.—*Dr. Troost and S. M. Edgar.*

Unio sparsus. Testâ sparsim tuberculatâ, triangulari, subinflatâ, subæquilaterali, posticè emarginatâ; ad latus planulatâ; valvulis crassis; natibus elevatis; epidermide luteolâ; dentibus cardinalibus grandibus; lateralibus brevissimis rectisque; margaritâ albâ et iridescente. *Hab.* Holston River, East Tennessee.—*Dr. Troost and S. M. Edgar.*

Unio argenteus. Testâ obliquâ, oviformi, valdè compressâ, valdè inæquilaterali, posticè subangulatâ; valvulis subcrassis; natibus subprominentibus; epidermide luteo-fuscâ, politâ; dentibus cardinalibus subgrandibus, lateralibus longis subcurvisque; margaritâ argenteâ et iridescente. *Hab.* Holston River, East Tenn.—*Dr. Troost and S. M. Edgar.*

Helix Mobiliana. Testâ subglobosâ, rufo-corneâ, nitidâ, perforatâ; spirâ brevi, obtusâ; suturis impressis; anfractibus senis, convexis; aperturâ lunatâ; labro reflexo. *Hab.* Vicinity of Mobile, Alab.—*Charles Lea.*

Helix minutissima. Testâ subglobosâ, suprâ obtuso-conoideâ, subtus convexâ, fusco-corneâ, minutissimè striatâ, umbilicatâ; spirâ brevi; suturis impressis; anfractibus quaternis, rotundis; aperturâ subrotundâ; labro acuto. *Hab.* Vicinity of Cincinnati.—*T. G. Lea.*

Melania turgida. Testâ lævi, obtuso-conicâ, inflatâ, crassâ, fasciatâ; spirâ brevi, ad apicem acuminatâ; suturis leviter impressis; anfractibus septenis, planulatis; aperturâ parvâ, formam trapezii habente; columellâ incrassatâ, albâ. *Hab.* Holston River, East Tenn.—*Dr. Troost and S. M. Edgar.*

Melania glabra. Testâ lævi, conoideâ, subtenui, nitidâ, tenebroso-castaneâ; spirâ subelevatâ, suturis leviter impressis; anfractibus subplanulatis; aperturâ elongatâ, formam trapezii habente, intus purpuratâ; columellâ incurvâ. *Hab.* Holston River, East Tenn.—*Dr. Troost and S. M. Edgar.*

Melania perfusca. Testâ lævi, conoideâ, subcrassâ, tenebroso-fuscâ; spirâ exertâ; suturis linearibus; anfractibus subplanulatis; aperturâ grandi, inflatâ, ovatâ, intus pallido-purpureâ. *Hab.* Calfkiller Creek, Tenn.—*S. M. Edgar.*

Melania picta. Testâ lævi, obtuso-conicâ, crassâ, sub-fusiformi, subviridi, fasciatâ; spirâ subelevatâ; suturis impressis, supernè exaratis; anfractibus octonis, planulatis; aperturâ elongatâ, formam trapezii habente; columellâ incurvâ. *Hab.* Holston River, East Tenn.—*Dr. Troost and S. M. Edgar.*

Melania impressa. Testâ transversè et crebissimè sulcatâ, fusiformi, crassâ, rufo-fuscâ; spirâ obtusâ; suturis impressis; anfractibus senis, planulatis; aperturâ ellipticâ sub-grandi, ad basim angulatâ, intus albâ. *Hab.* Coosa River, Alabama.—*Prof. Brumley.*

Melania robusta. Testâ striatâ, fusiformi, crassâ, luteolâ; spirâ obtusâ; suturis subimpressis; anfractibus senis, subconvexis; aperturâ ellipticâ, magnâ, ad basim angulatâ, intus albâ. *Hab.* Coosa River, Alabama.—*Prof. Brumley.*

Melania Jayana. Testâ tuberculatâ, subfusiformi, crassâ, pallido-corneâ; spirâ exertâ; suturis linearibus, curvatis; anfractibus subconvexis, medio impressis, tuberculorum duplici serie cinctis; columellâ incurvatâ, supernè in-crassatâ; aperturâ formam trapezii habente, intus albidâ. *Hab.* Cany Fork, De Kalb Co. Tenn.—*Dr. Troost.*

Anculosa rubiginosa. Testâ ovato-gibbosâ, crassâ, lævi, rubiginosâ; spirâ subelevatâ; suturis impressis; anfractibus planulatis; aperturâ enormiter ovatâ, intus albidâ; columellâ crassâ, tenebroso-purpureâ. *Hab.* Warrior River, Alabama.—*Prof. Brumley.*

Anculosa bella. Testâ sub-globosâ, subtenui, supernè tuberculatâ, fasciatâ, virido-fuscâ; spirâ brevi; suturis linearibus, anfractibus ternis, convexis; aperturâ subrotundâ, intus cœruleâ; columellâ maculatâ. *Hab.* Warrior River, Alabama.—*Prof. Brumley.*

Anculosa Griffithiana. Testâ ovato-gibbosâ, crassâ, crebrè et transversè striatâ, fasciatâ; suturis impressis; anfractibus quaternis, planulatis; aperturâ ovatâ, intus fasciatâ; columellâ crassâ, tenebroso-purpureâ. *Hab.* Coosa River, Alabama.—*Prof. Brumley.*

Anculosa tuberculata. Testâ ovatâ, crassâ, supernè tuberculatâ, fuscâ; spirâ brevi; suturis vix impressis; anfractibus subconvexis; aperturâ ovatâ, intus carneâ; columellâ crassâ, maculatâ. *Hab.* Warrior River, Alabama.—*Prof. Brumley.*

Valvata bicarinata. Testâ orbiculari, supernè planulatâ, bicarinatâ, sub-crassâ, supernè corneâ, infernè albidâ, latè umbilicatâ; suturis impressis; spirâ depressâ; anfractibus quaternis, convexis; aperturâ rotundâ, intus albidâ. *Hab.* Schuylkill River, west side, below Permanent Bridge.—*H. C. Lea.*

Paludina angulata. Testâ inflatâ, tenui, fuscâ, supernè subvaricosâ, infernè transversè et minutè striatâ, minutè perforatâ; spirâ breviusculâ, ad apicem tenebosâ; suturis impressis; anfractibus quinis, in medio angulatis; aperturâ magnâ, sub-triangulatâ, intus subrubiginosâ. *Hab.* Coosa River, Alabama.—*Prof. Brumley.*

Paludina Coosaensis. Testâ sub-globosâ, tenui, pallidâ, sub-lævi, perforatâ; spirâ brevi; suturis valdè impressis; anfractibus quinis, rotundis; aperturâ magnâ, subrotundâ, intus albidâ. *Hab.* Coosa River, Alabama.—*Professor Brumley.*

Paludina cyclostomaformis. Testâ subcylindraceâ, subcrassâ, pallido-corneâ, lævi, imperforatâ; spirâ exertâ, ad apicem roseâ, obtusâ; suturis valdè impressis; anfractibus quinis, rotundatis; aperturâ parvâ, subrotundâ, intus salmonis colore tinctâ. *Hab.* Coosa River, Alabama.—*Prof. Brumley.*

Professor Bache communicated some recent observations of the Magnetic Dip, made at Baltimore by M. Nicollet and by

Major Graham of the U. S. Topog. Engineers, and mentioned that they confirmed those made by himself. He added, that they gave additional confirmation to the fact of a very considerable local attraction at the different stations in Baltimore, to which he had been led by comparing his own observations with those of Professors Courtenay and Loomis.*

The observations of M. Nicollet were made with a dipping circle by Robinson, of London, and with two needles. The stations of observation were at the second square, N. E. of the Washington Monument, (the station of observation of Professor Bache,) and in the Botanic Garden of St. Mary's College. The times of observation from 9 A. M. to 12 M., and from 3 to 6½ P. M. on the 28th of April, 1841. The resulting dip at the first station, $71^{\circ} 34'.9$, and at the second, $71^{\circ} 38'.8$.

The observations of Major Graham were made with a dipping circle and two needles, by Gambey. The stations of observation were four in number. No. 1 was N. 5° E. 363 yards from the centre of the Washington Monument, and is supposed to have been the station occupied by Prof. Loomis. The dates of observation, June 9th, 1 to 3 P. M. and June 10th, 6½ to 9½ A. M. The resulting magnetic dips, were $71^{\circ} 48'.4$. and $71^{\circ} 46'.0$, mean $71^{\circ} 47'.2$, agreeing very well with the determination of Prof. Loomis, ($71^{\circ} 50'.3$.) after making an allowance for the diminution of dip in the interval between the observations.

Station No. 2 bore N. 45° E. from the centre of the Washington Monument, N. 11° W. from the dome of the Exchange, and was the place where Prof. Bache had observed. The time was June 10th, 1841, 11½ A. M. to 1½ P. M. The resulting dip $71^{\circ} 31'.9$, agreeing very well with the determinations of M. Nicollet and Prof. Bache.

Observations at stations Nos. 3 and 4 were made to ascertain whether a line of iron pipes serving to connect a neighbouring spring-house and dairy, and running nearly E. and W. caused the differences observed in the two stations Nos. 1 and 2. No. 3 was nearly intermediate between Nos. 1 and 2, and 43 feet N. of the line of pipes, bearing of No. 1 for No. 3, N. 35° W. and distance 212 feet. Resulting dip, by two series of observations with one needle, $71^{\circ} 47'.5$. The bearing of No. 3 from No. 4 was N. 8° W. and distance 181 feet, and Nos. 3 and 4 were nearly at the same distances N.

* Proceedings of the Am. Phil. Society, Vol. I. No. 14.

and S. of the line of pipes. The resulting dip, by one needle, at No. 4, was $71^{\circ} 43'.2$, differing $4'.3$ from that observed at No. 3. It seems, therefore, by the comparison of stations Nos. 1, 3, and 4, that the presence of this iron will not explain the differences at stations Nos. 1 and 2. Major Graham found the dip, with the same instrument, in the Magnetic Cabinet of the Botanic Garden, St. Mary's College, on the 11th June, between $6\frac{1}{2}$ and $7\frac{1}{2}$ A. M., $71^{\circ} 38'.8$

Professor Bache then communicated the following tabular view of the observations heretofore made at Baltimore, arranged according to the stations and dates.

Station.	Observer.	Date.	Dip.
1 Holliday Street, nearly opposite the Theatre,	Prof. Courtenay.	July 19, 1834	$70^{\circ} 58'.6$
2 In the grove, N. of the Washington Monument,	Prof. Loomis.	Sept. 25, 1839	$71^{\circ} 50'.3$
3 N. 5° E. (Magnetic) 363 yards from centre of Washington Monument, supposed the same station as that of Prof. Loomis,	Maj. Graham.	June 10, 1841	$71^{\circ} 47'.2$
4 In the Second Square, N. E. of Washington Monument,	Prof. Bache.	Aug. 27, 1840	$71^{\circ} 34'.4$
5 " " "	Mr. Nicollet.	Apr. 28, 1841.	$71^{\circ} 34'.9$
6 " " "	Maj. Graham.	June 10, 1841	$71^{\circ} 31'.9$
7 At two points between 3, and 4, 5, 6,	" "	" "	$71^{\circ} 45'.3$
8 In the Botanic Garden, St. Mary's College,	Mr. Nicollet.	Apr. 28, "	$71^{\circ} 38'.6$
9 " " "	Maj. Graham.	June 11, "	$71^{\circ} 38'.8$

The results obtained by different observers and with different instruments are, Professor Bache remarked, remarkably accordant, and leave no doubt of the care with which the observations were made, or of the value of the instruments.

Mr. Lea mentioned to the Society, that Mr. Lyell is about to visit this country, upon the invitation of the Lowell Institute, to give lectures before that body. He announced also that M. Ramon de la Sagra is about to publish a Journal of Natural History at Havana, and that he invited communications for the work.

Mr. Kane submitted the following resolutions, which were adopted:

Resolved, That a committee be appointed to negotiate with

the City or County of Philadelphia, as they shall judge expedient, for the sale of the Hall of the Society and the lot of ground on which it stands.

Resolved, That the same committee be instructed to inquire into the practicability and expediency of purchasing for the use of the Society the building now occupied by the Philadelphia and Chinese Museums.

The Committee consists of Dr. Patterson, Dr. Chapman, and Mr. Richards.

Mr. Kane, Reporter, laid on the table No. 18 of the Proceedings of the Society, for May and June, 1841.

The decease of the following named members was announced:

Joseph Parker Norris, 22d June, 1841; aged 78:

James Abercrombie, D.D. 26th June, 1841; aged 83:

William James Mac Neven, M.D. 12th July, 1841; aged 78:

Julien Ursin Niemcewicz, 1841; aged 84.

GEORGE BANCROFT, of Boston, was duly elected a member of the Society.

Special Meeting, July 28.

Present, twenty-three members.

Mr. DU PONCEAU, President, in the Chair.

On motion of Dr. Patterson, from the Committee appointed at the last meeting to negotiate for the sale of the Hall of the Society, &c., that Committee was authorized to take final order in the matters referred to it.

Special Meeting, August 9.

Present, twenty-one members.

Mr. DU PONCEAU, President, in the Chair.

Dr. Patterson, from the Committee appointed on the 16th July, reported in part, that the Committee had purchased the building now occupied by the Philadelphia and Chinese Mu-